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MONTANA OIL AND GAS STATISTICAL BULLETIN

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BOARD OF OIL AND GAS CONSERVATION
P.O. BOX 217 — 25 SOUTH EWING
HELENA, MONTANA 59601

VOL. XXVIII No. 12 — 8 — DECEMBER, 1979

PRODUCTION STATUS

Production of crude oil and condensate from oil and gas areas of Montana for the month of December, 1979 averaged 84,629 barrels daily, a decrease of 1,877 barrels from the average 86,506 production in November, 1979.

The six refineries in the state processed 139,610 barrels of crude oil daily for the month of December, 1979, a decrease of 3,174 barrels from the 142,784 barrels processed daily during the month of November, 1979.

During December, 105 wells were completed, 21 oil, 19 gas, and 65 dry holes.

During December, the board issued 70 permits to drill new wells, a decrease of 21 from the 91 permits issued during November, 1979.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA MONTH OF DECEMBER, 1979

IN STORAGE, DECEMBER 1st	
By Producers	372,621
By Transporters	1,617,447
By Refiners	684,971
TOTAL STORAGE	2,675,039
Produced in Mont. During Month	2,623,510
Imported During Month	3,567,046
TOTAL	8,865,595
DISPOSITION	
Refined in Montana	4,386.909
Exported	1,876,153
Used For Fuel or Lost	5,365
TOTAL	6,268,427
IN STORAGE, DECEMBER 31st	
By Producers	377,695
By Transporters	1,594,871
By Refiners	624,602
TOTAL STORAGE	2,597,168

REFINERS MONTHLY REPORT DECEMBER, 1979

Company	Beginning Storage	Montana Oil	N. Dakota Oil	Wyoming Oil	Canada Oil	Refined	Ending Storage
Continental Oil Co.	241,481	230,863	—	310,903	937,535	1,507,378	212,047
Exxon Company	144,674	50,252	—	928,395	521,066	1,476,546	167,841
Farmers Union	262,425	84,629	—	431,458	396,237	972,466	202,283
Kenco Refining	10,325	103,285	—	—	—	90,865	22,745
Philips Petroleum	5,795	158,941	—	—	41,452	199,818	6,370
Wesco Refining Co.	20,271	132,881	—	—	—	139,836	13,316
Totals	684,971	760,851	—	1,670,756	1,896,290	4,386,909	624,602

AVERAGE BARRELS RECEIVED PER DAY

	Montana	N. Dakota	Wyoming	Canada	Total
Year, 1978	24,240	190	47,982	58,545	130,957
December, 1978	26,454	37	47,984	63,397	137,872
December, 1979	24,544	—	53,895	61,171	139,610

PERCENTAGE OF CRUDE OIL RECEIVED

	Montana	N. Dakota	Wyoming	Canada
Year, 1978	18.51%	.14%	36.64%	44.71%
December, 1978	19.19%	.03%	34.80%	45.98%
December, 1979	17.58%	—	38.60%	43.82%

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PRODUCER'S REPORT — MONTH OF DECEMBER, 1979

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped	Used or Lost	Storage End of Month
1	Anvil	1	1,185	14,254	14,074	—	1,365
5	Arch Apex	6	1,619	808	1,124	—	1,303
2	Ash Creek	3	230	731	714	—	247
—	Bainville	—	304	(129)	175	—	—
3	Bainville, North	3	1,780	14,107	12,334	—	3,553
1	Bainville, West	1	1,003	663	627	—	1,039
6	Bannatyne	12	301	623	357	—	567
5	Bears Den	6	2,231	771	947	—	2,055
15	Bell Creek	153	11,739	468,859	469,017	—	11,581
—	Benrud	—	124	—	—	—	124
3	Benrud, East	3	1,703	5,979	6,001	—	1,681
1	Benrud, Northeast	1	745	1,153	1,212	—	686
1	Berthelote	1	268	47	213	—	102
2	Big Gully	2	124	438	441	—	121
1	Big Gully, North	1	135	407	405	2	135
3	Big Muddy Creek	3	2,511	6,186	6,833	—	1,864
5	Big Wall	12	1,189	9,056	9,008	—	1,237
1	Big Wall, North	1	235	30	202	2	61
1	Blackfoot	1	381	1,597	1,627	—	351
2	Blue Hill	2	834	2,531	923	—	2,442
6	Border	10	956	1,271	1,174	—	1,053
1	Boulder	1	360	732	908	—	184
1	Bowes	56	3,751	10,856	10,463	—	4,144
2	Bradley	2	648	622	411	-	859
1	Brady	1	—	234	234	—	—
2	Breed Creek	4	714	11,601	11,585	—	730
5	Brorson-Madison	5	2,022	2,801	2,717	—	2,106
2	Brorson-Red River	2	4,737	2,555	2,012	—	5,280
4	Brorson-Red River, South	4	1,930	4,565	3,694	—	2,801
4	Brush Lake	4	1,403	6,095	5,554	—	1,944
2	Burns Creek	2	959	802	1,040	—	721
2	Cabin Creek	80	—	134,254	134,254	—	—
2	Canal	2	1,293	2,709	2,875	—	1,127
2	Carlyle	2	947	2,634	2,669	—	912
10	Cat Creek	62	1,926	7,745	6,193	—	3,478
2	Charlie Creek	2	1,185	9,447	9,539	—	1,093
1	Clark's Fork	1	135	69	174	—	30
—	Clark's Fork, North	—	570	—	—	—	570
1	Clark's Fork, South	1	219	150	—	—	369
6	Clear Lake	10	3,422	26,263	25,166	—	4,519
1	Coalridge	1	237	5,028	4,881	—	384
1	Colored Canyon	1	300	5,526	5,292	—	534
3	Conrad, South	3	90	616	616	—	90
1	Cow Creek	1	103	335	237	—	201
9	Cow Creek, East	11	4,445	12,565	14,175	—	2,835
1	Crane	1	1,038	904	1,602	—	340
2	Culbertson	2	943	4,067	3,871	—	1,139
4	Cupton	7	4,147	8,800	9,278	—	3,669
85	Cut Bank	893	35,227	120,947	119,920	287	35,967
1	Dagmar	2	495	5,308	4,845	—	958
1	Dean Dome	1	1,089	502	765	—	826
1	Deer Creek	1	492	536	898	—	130
1	Delphia	1	178	453	447	—	184
—	Devils Basin	—	114	—	—	—	114
2	Divide	2	442	3,231	2,798	—	875
6	Dry Creek	6	1,009	777	1,133	—	653
1	Dry Creek, West	1	517	(90)	320	—	107
2	Dwyer	10	3,021	11,241	10,999	—	3,263
3	Eagle	3	1,499	2,804	2,852	—	1,451
3	Elk Basin	54	428	84,039	84,055	—	412
2	Elk Basin, Northwest	4	1,208	1,211	1,184	—	1,235
3	Enid, North	3	873	2,136	2,498	—	511
4	Fairview	8	6,667	15,036	15,883	—	5,820
1	Fertile Prairie	1	458	430	448	—	440
4	Flat Coulee	20	1,488	13,044	13,213	—	1,319
7	Flat Lake	49	3,013	47,293	48,102	—	2,204
4	Flat Lake, South	4	1,256	2,669	3,387	—	538
2	Fort Gilbert	3	676	2,778	2,433	—	1,021
1	Four Mile Creek	1	1,408	1,596	2,418	—	586
1	Four Mile Creek, West	2	1,077	6,755	5,799	—	2,033
1	Fox Creek	1	246	2,096	1,775	—	567
1	Fox Creek, North	1	1,290	299	839	—	750
1	Frannie	1	—	434	434	—	—
14	Fred and George Creek	36	5,167	33,272	3,4055	—	4,384
1	Frog Coulee	1	527	4,065	4,334	—	258
1	Froid, South	1	964	237	435	—	766
1	Gage	1	56	19	—	—	75
3	Gas City	9	1,850	9,648	10,502	—	996
—	Girard	—	249	—	—	—	249
12	Glendive	15	1,593	16,367	16,177	—	1,783
—	Golden Dome	—	331	—	—	—	331
12	Goose Lake	31	2,538	18,580	18,059	—	3,059
10	Graben Coulee	37	3,218	3,550	3,460	—	3,308
1	Grandview, East	1	630	318	633	—	315
1	Gumbo Ridge	4	183	2,724	2,764	—	143
6	Gypsy Basin	10	1,525	1,365	1,085	—	1,805
2	Hay Creek-Mission	2	415	741	769	—	387
2	Hay Creek-Red River	2	2,223	1,497	2,238	—	1,482
4	Hiawatha	4	2,413	2,383	2,792	—	2,004
1	Hibbard	1	166	141	—	—	307
8	High Five	12	3,589	17,417	17,242	—	3,764
2	Highview	2	344	186	287	—	243
1	Horse Creek	1	273	40	—	—	313
1	Howard Coulee	1	409	659	623	—	445
3	Ivanhoe	7	884	1,370	1,233	—	1,021
—	Jackass Butte	—	393	—	—	—	393
2	Jim Coulee	14	1,740	14,467	14,150	—	2,057
2	Katy Lake, North	2	1,899	26,735	27,035	—	1,599
6	Keg Coulee	17	4,320	5,987	6,413	—	3,894
3	Keg Coulee, North	3	1,929	1,396	1,982	4	1,339
1	Kelley	3	99	2,745	2,296	—	548
106	Kevin Sunburst	575	14,827	29,748	28,385	(4)	16,194
1	Laird Creek	6	815	700	1,022	—	493
1	Landslide Butte	1	—	272	169	—	103
2	Laurel	2	530	(96)	—	—	434
5	Leary	5	1,693	3,933	3,797	12	1,817
2	Little Beaver	23	116	34,539	34,539	—	116
2	Little Beaver, East	9	2,049	9,454	10,667	—	836
14	Little Wall Creek	19	4,274	14,476	13,752	65	4,933

PRODUCER'S REPORT — MONTH OF DECEMBER, 1979 (CONTINUED)

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped	Used or Lost	Storage End of Month
1	Lodge Grass	1	660	570	598	—	632
2	Lone Butte	2	836	2,018	1,483	—	1,371
9	Lonetree Creek	10	6,247	23,247	23,167	—	6,327
1	Long Creek	1	169	459	479	—	149
2	Long Creek, West	2	882	4,392	4,912	—	362
3	Lookout Butte (Coral Creek)	30	700	50,037	50,237	—	500
8	Mason Lake	12	1,998	18,921	19,491	56	1,372
1	Mason Lake, North	1	109	265	218	—	156
1	McCabe	1	462	1,693	1,777	—	378
4	Medicine Lake	6	4,795	49,483	48,730	259	5,289
3	Melstone	7	1,155	11,757	11,730	—	1,182
1	Mineral Bench	1	566	200	424	—	342
2	Miners Coulee	2	546	169	259	—	456
32	Mon Dak West	32	12,845	100,297	100,307	—	12,835
9	Monarch	14	2,955	10,018	9,940	(168)	3,201
3	Mosser	10	—	490	490	—	—
1	Nohly	2	709	5,133	4,351	—	1,491
1	North Fork	2	1,106	2,776	2,549	—	1,333
2	Otis Creek	2	1,142	677	725	—	1,094
5	Outlook	6	2,503	18,156	18,513	—	2,146
1	Outlook, South	1	1,840	652	889	—	1,603
1	Outlook, West	1	1,891	223	688	—	1,426
1	Oxbow	1	1,658	4,295	4,633	—	1,320
1	Pelican	1	530	198	521	—	207
1	Pennel	115	2,048	258,572	259,690	—	930
1	Pete Creek	1	215	271	378	—	108
2	Phantom	3	1,450	2,138	1,889	—	1,699
4	Pine	98	12,890	176,753	175,856	—	13,787
68	Pondera	292	7,376	25,170	24,571	—	7,975
6	Poplar	67	4,508	19,705	21,368	—	2,845
11	Poplar, Northwest	16	3,823	8,854	10,247	989	1,441
1	Prairie Elk	1	394	495	492	—	397
1	Prichard Creek	4	351	609	693	—	267
12	Putnam	13	4,747	53,142	52,072	—	5,817
3	Rabbit Hills	3	1,984	4,597	4,715	—	1,866
10	Ragged Point	24	3,764	4,164	4,496	172	3,260
2	Rattler Butte	2	439	1,700	1,789	—	350
2	Rattlesnake Coulee	2	267	213	—	—	480
2	Raymond	9	2,920	30,918	30,431	—	3,407
1	Raymond, Northeast	1	517	1,026	889	—	654
3	Reagan	59	272	22,697	22,542	—	427
1	Red Creek	20	—	5,953	5,953	—	—
1	Red Fox	1	226	295	258	—	263
1	Redstone	1	373	965	876	—	462
1	Refuge	1	265	5,378	5,204	—	439
1	Repeat	1	215	859	859	—	215
3	Reserve	3	1,523	3,224	3,513	—	1,234
2	Richey	3	395	1,463	1,463	—	395
1	Richey, Southwest	4	455	695	826	—	324
2	Ridgelawn	2	513	4,950	4,559	—	904
2	RipRap Coulee	2	1,456	1,525	1,802	—	1,179
1	Rocky Point	1	570	2,673	2,419	—	824
1	Roscoe Dome	1	312	92	—	—	404
4	Rosebud	4	867	1,703	1,371	—	1,199
2	Rudyard	2	827	143	—	—	970
1	Rush Mountain	1	586	1,463	1,153	—	896
2	Salt Lake	3	585	1,648	1,698	—	535
2	Sand Creek	2	318	581	581	—	318
4	Second Creek	4	1,154	4,340	3,531	—	1,963
2	Sheepherder	3	417	352	418	(5)	356
1	Shotgun Creek, North	1	327	1,107	1,054	—	380
14	Sidney	14	4,774	24,956	23,925	—	5,805
—	Singletree	—	295	—	—	—	295
7	Sioux Pass	7	4,291	11,856	11,485	—	4,662
1	Sioux Pass, East	1	196	918	924	—	190
5	Sioux Pass, Middle	5	3,107	15,731	15,958	—	2,880
8	Sioux Pass, North	8	4,153	20,271	20,372	—	4,052
1	Snyder	3	54	525	179	—	400
10	Soap Creek	27	2,550	5,438	5,668	—	2,320
2	Soap Creek, East	3	602	1,706	1,895	—	413
3	South Fork	3	1,698	12,414	12,599	—	1,513
1	Spring Lake	1	1,118	915	906	—	1,127
1	Stensvad	3	2,290	300	923	—	1,667
31	Sumatra	98	7,832	97,265	95,350	(19)	9,766
2	Sunnyhill	2	425	1,389	1,065	—	749
—	Tippy Buttes	—	56	—	—	—	56
5	Tule Creek	5	2,214	11,251	9,137	—	4,328
1	Tule Creek, East	1	1,053	576	1,096	—	533
2	Tule Creek, South	2	930	1,227	1,199	228	730
4	Utopia Swift	12	1,352	4,956	5,097	—	1,211
14	Vaux	14	6,703	24,750	22,441	—	9,012
—	Vida	1	124	1,258	1,258	—	124
5	Volt	6	3,061	5,924	6,926	—	2,059
—	Wagon Box	—	135	—	—	—	135
1	Weed Creek	1	317	421	535	—	203
2	Weldon	2	615	1,488	1,346	—	757
2	West Butte	2	161	1,685	1,304	—	542
27	Whitlash	70	12,478	13,689	13,203	(383)	13,347
1	Whitlash, West	1	422	118	118	—	422
2	Willow Creek, North	2	543	729	1,020	66	186
1	Willow Ridge	3	—	401	401	—	—
3	Wills Creek, South	3	—	2,925	2,925	—	—
2	Winnett Junction	6	411	7,452	7,463	—	400
3	Wolf Springs	3	2,723	1,479	2,618	—	1,584
—	Womans Pocket	—	271	—	—	—	271
2	Woodrow	2	281	1,409	1,447	—	243
2	Wright Creek	3	1,409	934	1,318	—	1,025
1	Wildcat, Liberty County	1	—	122	122	—	—
—	Wildcat, McCone County	—	52	—	—	—	52
2	Wildcat, Richland County	2	587	171	—	—	758
4	Wildcat, Sheridan County	4	1,715	13,774	12,173	—	3,316
1	Wildcat, Teton County	1	247	6	253	—	—
2	Wildcat, Toole County	2	200	977	541	—	636
942	TOTALS	3,661	372,621	2,623,782	2,617,145	1,563	377,695

See back page for oil production, shipping and storage summaries.

NATURAL AND ASSOCIATED GAS WITHDRAWALS IN MONTANA AT 14.73 PSIA and 60°F.—MONTH OF DECEMBER, 1979

Field	MCF
NATURAL:	
Alma	—
Arch Apex	31,047
Badlands	37,993
Barker Area	40,636
Battle Creek	244,736
Bear's Den	2,633
Big Coulee	112,236
Big Rock	74,912
Black Coulee	3,972
Blackjack	26,151
Bowdoin & Area	874,503
Bowes	82,702
Brown's Coulee	—
Bullwacker & Area	112,677
Canadian Coulee & Area	75,335
Cedar Creek	155,490
Chain Lakes	1,778
Chip Creek	2,461
Clark's Fork, North	—
Coal Coulee	5,484
Cut Bank	407,090
Dry Creek	123,328
Dry Creek, Middle	1,611
Dunkirk North	30,390
East Chinook	5,569
Flat Coulee	12,156
Fred & George	14,605
Fresno & Area	7,278
Gold Butte	—
Grandview	21,864
Gypsy Basin	63,620
Hardin	1,805
Haystack Butte	13,646
Highview	5,069
Keith Block	12,993
Kevin Sunburst	109,484
Kevin Sunburst Niski & Area	21,787
Kicking Horse	16,602
Kinyon Coulee Area	5,359
Lake Basin	88,598
Ledger	54,409
Leroy	91,265
Liscom Creek	16,104
Little Rock	1,857
Lohman	6,833
Marias River	28,706
Middle Butte	26,068
Miners Coulee	8,386
Mt. Lilly	68
Phantom	18,915
Plevna	2,615
Prairie Dell	68,470
Pumpkin Creek	—
Rapelje	14,068
Rocky Boy Area	8,386
Rudyard	53,283
Sage Creek	31,320
Sawtooth Mountain & Area	116,012
Sherard	64,030
Snoose Coulee	8,729
South Devon	9,360
Strawberry Creek Area	3,033
Swanson Creek	19,728
Three Mile	1,318
Tiger Ridge	1,539,616
Trail Creek	—
Utopia	42,777
West Butte	—
Whitlash	71,530
Williams	40,200
Willow Ridge	14,930
TOTAL NATURAL GAS	5,209,616
Field	**MCF**
ASSOCIATED:	
Anvil	10,085
Bell Creek	32,212
Big Muddy Creek	7,820
Blue Hill	427
Cabin Creek	22,283
Charlie Creek	—
Clark's Fork South	6,179
Clear Lake	6,952
Colored Canyon	2,853
Culbertson	4,784
Dagmar	3,214
Eagle	344
Elk Basin	6,743
Fairview	17,345
Four Mile Creek	1,478
Four Mile Creek, West	5,164
Glendive	—
Katy Lake, North	17,059
Lookout Butte (Coral Creek)	6,082
Medicine Lake	28,138
Mon Dak West	62,785
Otis Creek	424
Pennel	22,064
Pine	8,818
Refuge	2,666
Richland	53,585
Single Tree	—
Sioux Pass	34,566
Sioux Pass, East	1,369
Sioux Pass, Middle	7,948
Sioux Pass, North	13,436
Sumatra	—
Tule Creek	—
Vaux	—
TOTAL ASSOCIATED GAS	386,823
TOTAL WITHDRAWALS	5,596,439

Total withdrawals for December, 1978 were 4,989,035 MCF.

*Includes such fields as Benrud, Brorson, Ft. Gilbert, Hay Creek, Lone Butte, Lonetree, Red Fox & Second Creek.

Total oil produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1978	30,467,337	83,472	30,316,941	83,060
1st Quarter, 1979	6,992,797	77,698	7,014,545	77,939
2nd Quarter, 1979	7,450,412	81,873	7,448,554	81,852
3rd Quarter, 1979	7,713,544	83,843	7,684,932	83,532
October, 1979	2,624,172	84,651	2,650,399	85,497
November, 1979	2,595,182	86,506	2,591,605	86,387
December, 1979	2,623,782	84,638	2,617,139	84,424

Oil in Storage	In Producers Field Tanks	In Transporters Storage	In Refiners Storage	Total In Storage
December, 1978	428,559	1,432,743	935,266	2,796,568
March, 1979	403,818	1,425,052	860,312	2,689,182
June, 1979	397,439	1,478,422	906,150	2,782,011
September, 1979	398,522	1,701,382	630,042	2,729,946
October, 1979	369,595	1,603,475	649,202	2,622,272
November, 1979	372,621	1,617,447	684,971	2,675,039
December, 1979	377,695	1,594,871	624,602	2,597,168